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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-3. (Cancelled)

4. (Currently Amended) A non-contact position sensor comprising:

a slider having a magnet having a front face along a longitudinal direction of the magnet that has one polarity and a back face along the longitudinal direction of the magnet that has an opposite polarity;

a main stator consisting of a magnetic body having a pair of opposed walls forming an area in which the slider enters while keeping a predetermined clearance, the opposed walls corresponding to the front and back faces of the magnet, and a first gap continuing into the opposed walls;

a magnetically-sensitive sensor arranged in the first gap to detect a position of the slider corresponding to a percentage of the magnet entering the area; and

an assist stator for preventing magnetic flux, which is generated in a part of the magnet that does not enter the area, from leaking out to the main stator, wherein

the assist stator has a pair of opposed walls corresponding to front and back faces of the part of the magnet that does not enter the area and a second gap continuing into the opposed walls of the assist stator.

5.-6. (Cancelled)

7. (Currently Amended) A non-contact position sensor comprising:

a slider having a magnet having a front face along a longitudinal direction of the magnet that has one polarity and a back face along the longitudinal direction of the magnet that has an opposite polarity;

a main stator consisting of a magnetic body having a pair of opposed walls forming a first area in which the slider enters while keeping a predetermined clearance, the opposed

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walls corresponding to the front and back faces of the magnet, and a first gap continuing into the opposed walls;

an assist stator arranged at a second gap intersecting with a moving direction of the slider from the main stator, the assist stator consisting of a magnetic body having a pair of opposed walls forming a second area allowing the slider to move while keeping a predetermined clearance; and

a magnetically-sensitive sensor arranged in the first gap of the main stator to detect a position of the slider corresponding to a percentage of the magnet entering the first area of the main stator, wherein

the assist stator is partitioned through a third gap continuing into the opposed walls of the assist stator.

8.-19. (Cancelled)

20. (Previously Presented) The non-contact position sensor of claim 4, wherein the magnetically-sensitive sensor is provided in a direction perpendicular to a moving direction of the slider.

21. (Previously Presented) The non-contact position sensor of claim 7, wherein the magnetically-sensitive sensor is provided in a direction perpendicular to a moving direction of the slider.